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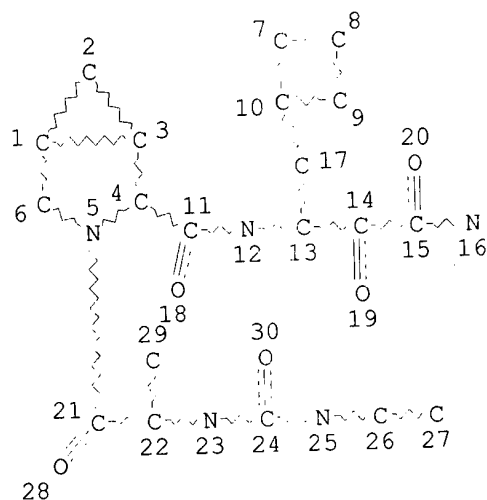
FILE COVERS 1907 - 15 Sep 2003 VOL 139 ISS 12  
 FILE LAST UPDATED: 14 Sep 2003 (20030914/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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 L1

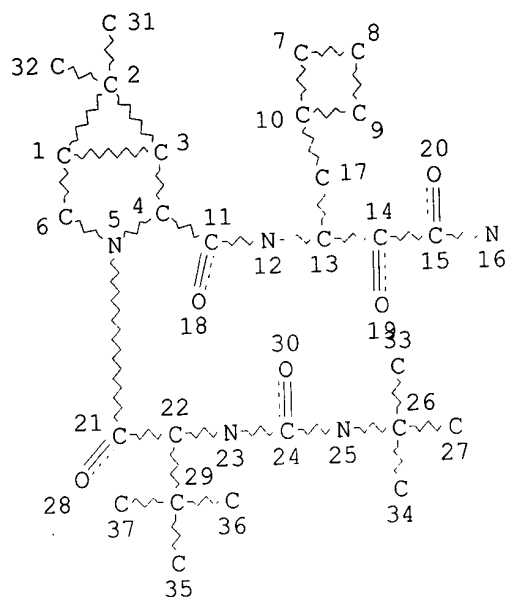
STR



NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 30

STEREO ATTRIBUTES: NONE  
 L3 36 SEA FILE=REGISTRY SSS FUL L1  
 L4 STR



## NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 37

## STEREO ATTRIBUTES: NONE

L5 13 SEA FILE=REGISTRY SUB=L3 SSS FUL L4  
 L6 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L5

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=&gt; d ibib abs hitrn 16 1-2

L6 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 2003:591204 HCAPLUS

DOCUMENT NUMBER: 139:149928

TITLE:

Preparation of peptides as NS3-serine protease inhibitors of hepatitis C virus

INVENTOR(S):

Saksena, Anil K.; Girijavallabh, Viyyoor M.; Lovey, Raymond G.; Jao, Edwin; Bennett, Frank; McCormick, Jinping L.; Wang, Haiyan; Pike, Russell E.; Bogen, Stephane L.; Chan, Tin-yau; Liu, Yi-tsung; Zhu, Zhaoning; Njoroge, George F.; Arasappan, Ashok; Parekh, Tejal; Ganguly, Ashit K.; Chen, Kevin X.; Venkatraman, Srikanth; Vaccaro, Henry A.; Pinto, Patrick A.; Santhanam, Bama; Kemp, Scott Jeffrey; Levy, Odile Esther; Lim-Wilby, Marguerita; Tamura, Susan Y.; Wu, Wanli; Hendrata, Siska; Huang, Yuhua; Wong, Jesse K.; Nair, Latha G.

PATENT ASSIGNEE(S):

SOURCE:

Schering Corporation, USA; Corvas International, Inc.  
 PCT Int. Appl., 633 pp.

DOCUMENT TYPE:

CODEN: PIXXD2  
 Patent

LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003062265	A2	20030731	WO 2003-US1430	20030116
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LU, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SC, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UZ, VC, VN, YU, ZA, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

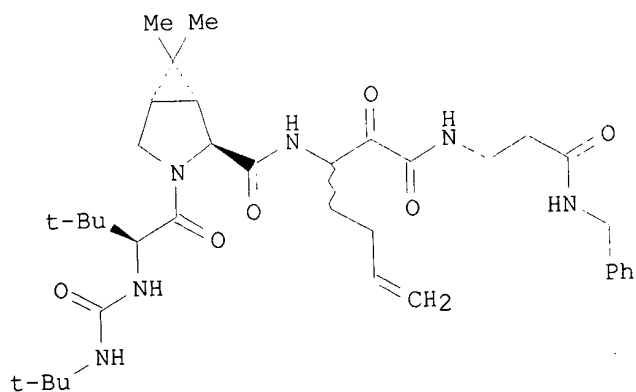
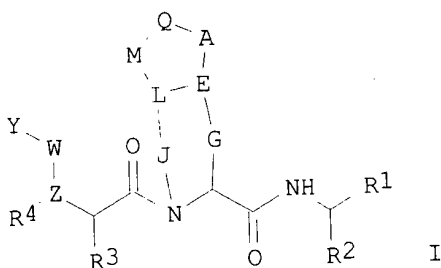
PRIORITY APPLN. INFO.:

US 2002-52386 A 20020118

OTHER SOURCE(S):

MARPAT 139:149928

GI



II

AB The invention discloses novel peptides I [Y is alkyl, alkylaryl, heteroalkyl, heteroaryl, aryl- or alkylheteroaryl, cycloalkyl, alkyloxy, alkylaryloxy, aryloxy, heteroaryloxy, heterocycloalkyloxy, cycloalkyloxy, alkylamino, arylamino, alkylarylamino, arylamino, heteroarylamino, cycloalkylamino, or heterocycloalkylamino; R1 is acyl; Z is selected from O, N, CH or CR; R, R2-R4 are H, alkyl, alkenyl, cycloalkyl, heterocycloalkyl, alkoxy, aryloxy, alkylthio, arylthio, amino, amido, ester, carboxylic acid, carbamate, urea, ketone, aldehyde, cyano, nitro, halo, (cycloalkyl)alkyl, or (heterocycloalkyl)alkyl; W, Q, G, J, L, M independently may be present or absent; W is CO, CS, C(:N-CN), or SO2; Q is CH, N, P, alkylidene, O, NR, S, or SO2; A is O, CH, alkylidene, NR, S,

SO<sub>2</sub>, or a bond; E is CH, N, alkylidene, or a double bond; G is alkylidene; J is alkylidene, SO<sub>2</sub>, NH, NR, or O; L is CH, CR, O, S, or NR; M is O, NR, S, SO<sub>2</sub>, or alkylidene (with provisos) which have HCV protease inhibitory activity as well as methods for prepg. such compds. In another embodiment, the invention discloses pharmaceutical compns. comprising such compds. as well as methods of using them to treat disorders assocd. with the HCV protease. Thus, peptide II was prepd. and showed  $K_i = 1-100$  nM (category A) in the HCV continuous assay.

IT 394730-60-0P 395647-62-8P 569675-49-6P  
569675-86-1P 569676-29-5P 569676-30-8P  
569677-40-3P 569677-41-4P 569677-43-6P  
569677-66-3P 569677-85-6P 569678-27-9P

RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of peptides as NS3-serine protease inhibitors of hepatitis C virus)

IT 394735-33-2P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. of peptides as NS3-serine protease inhibitors of hepatitis C virus)

L6 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:90062 HCAPLUS

DOCUMENT NUMBER: 136:167698

TITLE: Preparation of peptides as NS3-serine protease inhibitors of hepatitis C virus

INVENTOR(S):

Saksena, Anil K.; Girijavallabhan, Viyyoor Moopil; Lovey, Raymond G.; Jao, Edwin E.; Bennett, Frank; McCormick, Jinping L.; Wang, Haiyan; Pike, Russell E.; Bogen, Stephane L.; Chan, Tin-Yau; Liu, Yi-Tsung; Zhu, Zhaoning; Njoroge, F. George; Arasappan, Ashok; Parekh, Tejal N.; Ganguly, Ashit K.; Chen, Kevin X.; Venkatraman, Srikanth; Vaccaro, Henry A.; Pinto, Patrick A.; Santhanam, Bama; Wu, Wanli; Hendrata, Siska; Huang, Yuhua; Kemp, Scott Jeffrey; Levy, Odile Esther; Lim-Wilby, Marguerita; Tamura, Susan Y. Schering Corporation, USA; Corvas International, Inc. PCT Int. Appl., 536 pp.

PATENT ASSIGNEE(S):

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002008244	A2	20020131	WO 2001-US22678	20010719
WO 2002008244	A3	20030619		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LU, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

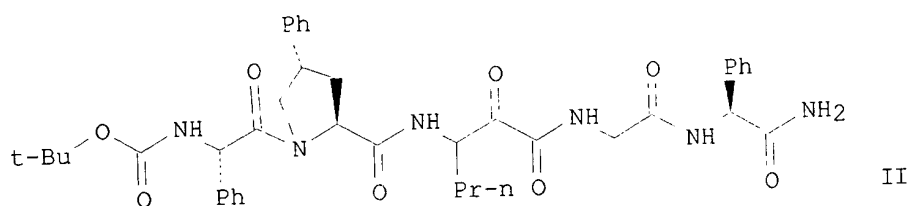
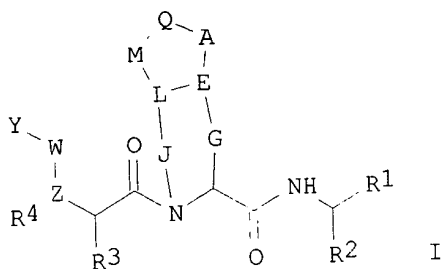
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2001076988	A5	20020205	AU 2001-76988	20010719
BR 2001012540	A	20030624	BR 2001-12540	20010719
NO 2003000272	A	20030321	NO 2003-272	20030120
			US 2000-220108P	P 20000721

PRIORITY APPLN. INFO.:

OTHER SOURCE(S):  
GI

MARPAT 136:167698



AB Peptides I were prepd. wherein Y is alkyl, alkyl-aryl, heteroaryl, heteroalkyl, heteroaryl, aryl-heteroaryl, alkylheteroaryl, cycloalkyl, alkyloxy, alkylaryloxy, aryloxy, heteroaryloxy, heterocycloalkyloxy, cycloalkyloxy,, alkylamino, arylamino, alkylarylamino, arylamino, heteroarylamino, cycloalkylamino and heterocycloalkylamino; R1 is acyl, borate; Z is selected from O, N, CH or CR; W, Q, G, J, L, M independently maybe present or absent; W is C=O, C=S, C(=N-CN), or SO; Q is CH, N, P, alkylidene, O, amine, S, or SO; A is O, CH, alkylidene, amine, S, SO or bond; E is CH, N, alkylidene, or double bond; G is alkylidene; J is alkylidene, SO, NH, NR, O; L is CH, alkylidene, O, S or NR; M is O, NR, S, SO, alkylidene; p is 0 to 6; and R-R4 are independently selected from the group consisting of H; alkyl; alkenyl; cycloalkyl; heterocycloalkyl, alkoxy, aryloxy, alkylthio, arylthio, amino, amido, ester, carboxylic acid, carbamate, urea, ketone, aldehyde, cyano, nitro, halogen; (cycloalkyl)alkyl and (heterocycloalkyl)alkyl, which have HCV protease inhibitory activity as well as methods for prepg. such compds. In another embodiment, the invention discloses pharmaceutical compns. comprising such compds. as well as methods of using them to treat disorders assocd. with the HCV protease. Thus peptide II was prepd. and tested as antiviral agent and NS3-serine protease inhibitors of hepatitis C virus with Ki ranges in category A = 1-100 nM; category B = 101-1,000 nM; category C > 1000 nM. Also disclosed is the use of I for the manuf. of a medicament for treating HCV, AIDS, and related disorders.

IT **394730-60-0P 395647-62-8P**

RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of peptides as NS3-serine protease inhibitors of hepatitis C virus)

IT **394735-33-2P**

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. of peptides as NS3-serine protease inhibitors of hepatitis C virus)

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FILE 'CAOLD' ENTERED AT 14:31:36 ON 15 SEP 2003  
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FILE COVERS 1907-1966  
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

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=> s 15  
L7 0 L5

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=> fil reg  
FILE 'REGISTRY' ENTERED AT 14:31:48 ON 15 SEP 2003  
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 14 SEP 2003 HIGHEST RN 585509-69-9  
DICTIONARY FILE UPDATES: 14 SEP 2003 HIGHEST RN 585509-69-9

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

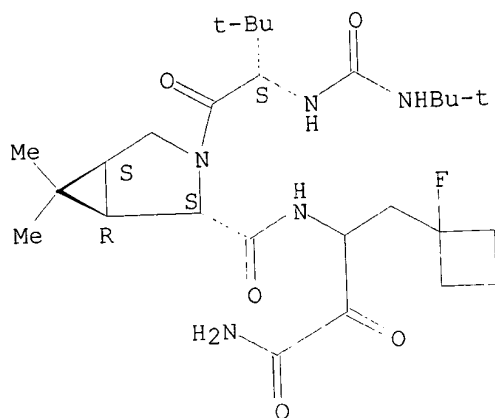
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L5 ANSWER 1 OF 13 REGISTRY COPYRIGHT 2003 ACS on STN

RN 569678-27-9 REGISTRY  
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 FS STEREOSEARCH  
 MF C27 H44 F N5 O5  
 SR CA  
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.



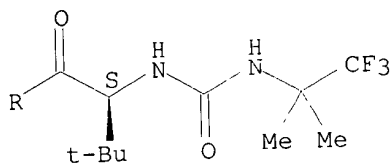
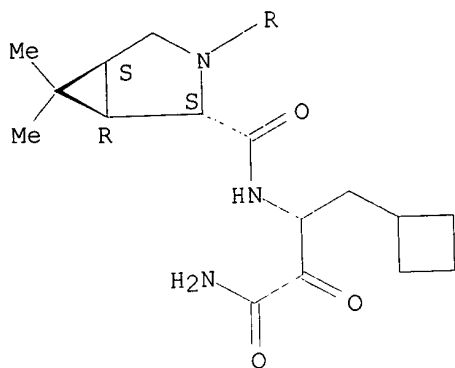
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1937 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 139:149928

L5 ANSWER 2 OF 13 REGISTRY COPYRIGHT 2003 ACS on STN  
 RN 569677-85-6 REGISTRY  
 CN 3-Azabicyclo[3.1.0]hexane-2-carboxamide, N-[3-amino-1-(cyclobutylmethyl)-2,3-dioxopropyl]-3-[(2S)-3,3-dimethyl-1-oxo-2-[[[(2,2,2-trifluoro-1,1-dimethylethyl)amino]carbonyl]amino]butyl]-6,6-dimethyl-, (1R,2S,5S)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C27 H42 F3 N5 O5  
 SR CA  
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.



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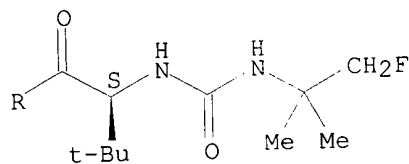
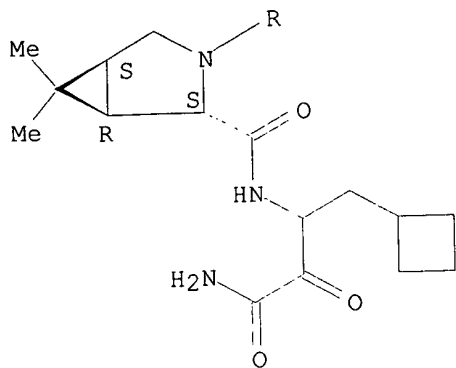
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1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 139:149928

L5 ANSWER 3 OF 13 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 569677-66-3 REGISTRY  
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2,3-dioxopropyl]-3-[(2S)-2-[[[(2-fluoro-1,1-dimethylethyl)amino]carbonyl]a  
mino]-3,3-dimethyl-1-oxobutyl]-6,6-dimethyl-, (1R,2S,5S)- (9CI) (CA INDEX  
NAME)  
FS STEREOSEARCH  
MF C27 H44 F N5 O5  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry..





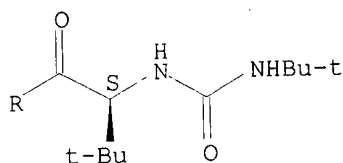
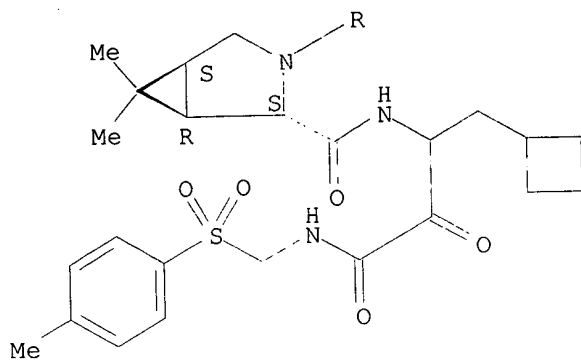
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1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 139:149928

L5 ANSWER 4 OF 13 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 569677-43-6 REGISTRY  
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FS STEREOSEARCH  
MF C35 H53 N5 O7 S  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



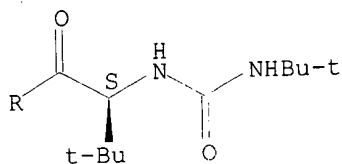
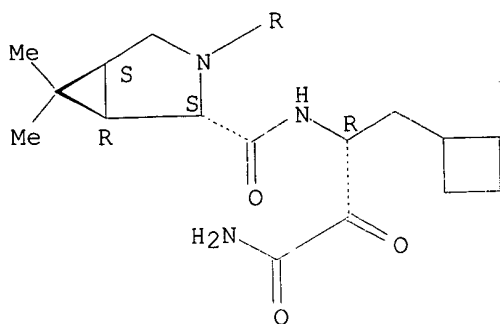
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1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 139:149928

L5 ANSWER 5 OF 13 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 569677-41-4 REGISTRY  
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FS STEREOSEARCH  
MF C27 H45 N5 O5  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



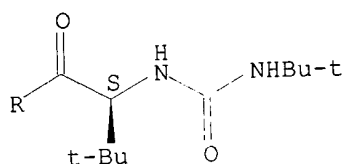
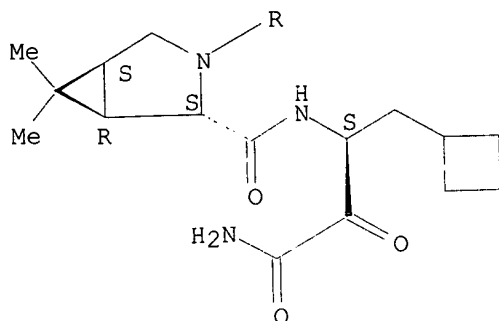
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1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 139:149928

L5 ANSWER 6 OF 13 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 569677-40-3 REGISTRY  
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SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



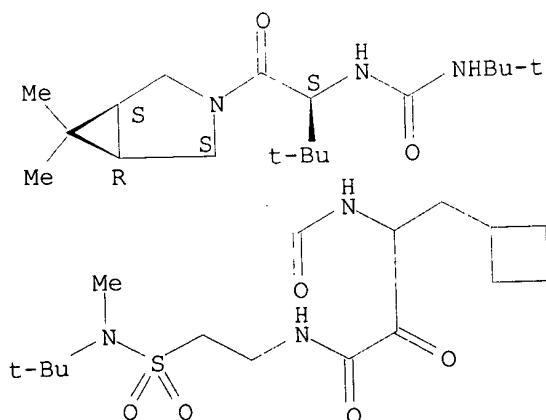
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1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 139:149928

L5 ANSWER 7 OF 13 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 569676-30-8 REGISTRY  
CN 3-Azabicyclo[3.1.0]hexane-2-carboxamide, N-[1-(cyclobutylmethyl)-3-[[2-  
[[[(1,1-dimethylethyl)methylamino]sulfonyl]ethyl]amino]-2,3-dioxopropyl]-3-  
[(2S)-2-[[[(1,1-dimethylethyl)amino]carbonyl]amino]-3,3-dimethyl-1-  
oxobutyl]-6,6-dimethyl-, (1R,2S,5S)- (9CI) (CA INDEX NAME)  
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LC STN Files: CA, CAPLUS

Absolute stereochemistry.



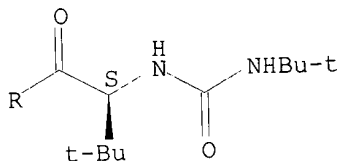
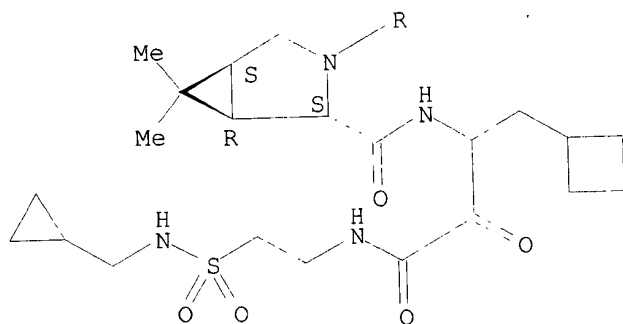
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1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 139:149928

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RN 569676-29-5 REGISTRY  
CN 3-Azabicyclo[3.1.0]hexane-2-carboxamide, N-[1-(cyclobutylmethyl)-3-[[2-  
[[[(cyclopropylmethyl)amino]sulfonyl]ethyl]amino]-2,3-dioxopropyl]-3-[(2S)-  
2-[[[(1,1-dimethylethyl)amino]carbonyl]amino]-3,3-dimethyl-1-oxobutyl]-6,6-  
dimethyl-, (1R,2S,5S)- (9CI) (CA INDEX NAME)  
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LC STN Files: CA, CAPLUS

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

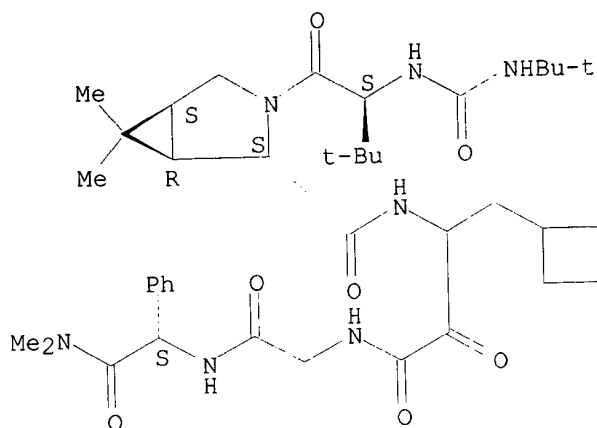
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1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 139:149928

L5 ANSWER 9 OF 13 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 569675-86-1 REGISTRY  
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(CA INDEX NAME)  
FS PROTEIN SEQUENCE; STEREOSEARCH  
MF C39 H59 N7 O7  
SR CA  
LC STN Files: CA, CAPLUS

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

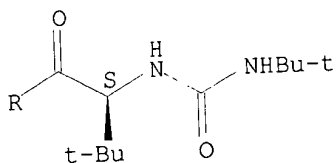
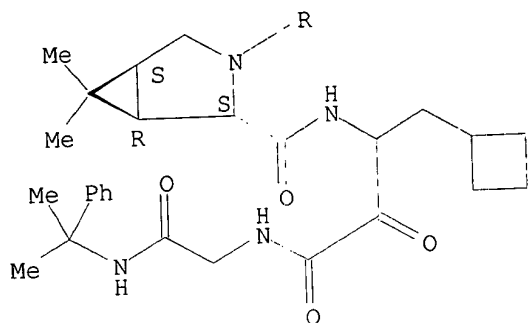
1 REFERENCES IN FILE CA (1937 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 139:149928

L5 ANSWER 10 OF 13 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 569675-49-6 REGISTRY  
CN Glycinamide, N-[[[(1,1-dimethylethyl)amino]carbonyl]-3-methyl-L-valyl-  
(1R,2S,5S)-6,6-dimethyl-3-azabicyclo[3.1.0]hexane-2-carbonyl-.beta.-amino-  
.alpha.-oxocyclobutanecarboxyl-N-(1-methyl-1-phenylethyl)- (9CI) (CA  
INDEX NAME)  
FS PROTEIN SEQUENCE; STEREOSEARCH  
MF C38 H58 N6 O6  
SR CA  
LC STN Files: CA, CAPLUS

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

Absolute stereochemistry.



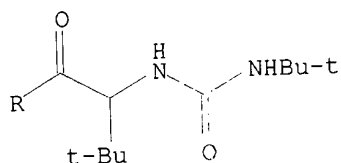
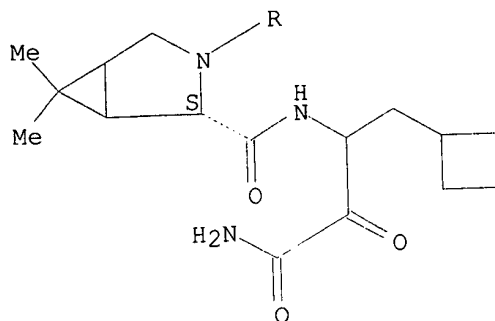
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1937 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 139:149928

L5 ANSWER 11 OF 13 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 395647-62-8 REGISTRY  
CN 3-Azabicyclo[3.1.0]hexane-2-carboxamide, N-[3-amino-1-(cyclobutylmethyl)-  
2,3-dioxopropyl]-3-[2-[[[(1,1-dimethylethyl)amino]carbonyl]amino]-3,3-  
dimethyl-1-oxobutyl]-6,6-dimethyl-, (2S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C27 H45 N5 O5  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1937 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 139:149928

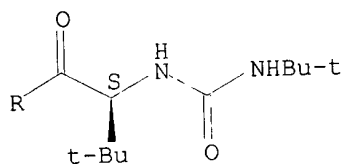
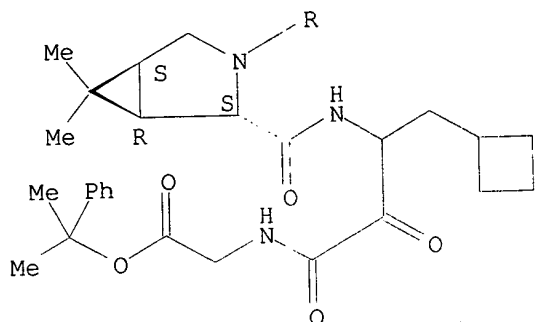
REFERENCE 2: 136:167698

L5 ANSWER 12 OF 13 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 394735-33-2 REGISTRY  
CN Glycine, N-[[[(1,1-dimethylethyl)amino]carbonyl]-3-methyl-L-valyl-  
(1R,2S,5S)-6,6-dimethyl-3-azabicyclo[3.1.0]hexane-2-carbonyl-.beta.-amino-  
.alpha.-oxocyclobutanecarboxyl-, 1-methyl-1-phenylethyl ester (9CI) (CA  
INDEX NAME)  
FS PROTEIN SEQUENCE; STEREOSEARCH  
MF C38 H57 N5 O7  
SR CA  
LC STN Files: CA, CAPLUS

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

Absolute stereochemistry.





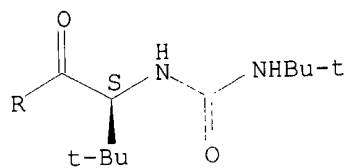
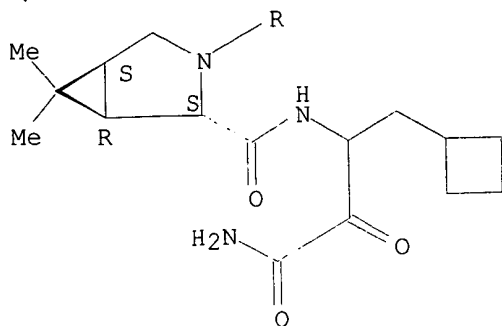
2 REFERENCES IN FILE CA (1937 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 139:149928

REFERENCE 2: 136:167698

L5 ANSWER 13 OF 13 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 394730-60-0 REGISTRY  
CN 3-Azabicyclo[3.1.0]hexane-2-carboxamide, N-[3-amino-1-(cyclobutylmethyl)-  
2,3-dioxopropyl]-3-[(2S)-2-[[[(1,1-dimethylethyl)amino]carbonyl]amino]-3,3-  
dimethyl-1-oxobutyl]-6,6-dimethyl-, (1R,2S,5S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C27 H45 N5 O5  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1937 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 139:149928

REFERENCE 2: 136:167698